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☐ 1. Document ID: US 6787245 B1

AB: Sulfonated aliphatic-aromatic copolyesters are provided. The copolyesters are produced from a mixture of aromatic dicarboxylic acids, aliphatic dicarboxylic acids, ethylene glycol, other glycols, and components containing alkali metal or alkaline earth metal sulfo groups, such as a metal 5-sulfoisophthalic acid derivative. The copolyesters have lower sulfonation than known sulfonated polyesters, and provide advantageous thermal properties for some end uses. The sulfonated aliphatic-aromatic copolyesters are useful in forming coatings or films on various substrates, and in packaging. Some compositions comprising the sulfonated aliphatic-aromatic copolyesters are biodegradable, as are some of the sulfonated aromatic-aromatic copolyesters.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des

☐ 2. Document ID: US 6784230 B1

AB: Compositions and processes for preparing extrudable powder blends containing at least one vinyl chloride resin and a cellulosic material are provided. More specifically, compositions and processes for preparing extrudable free-flowing powder blends containing PVC and wood flour (WF) are also provided for preparing foamed or nonfoamed extrudates. The processes provided herein incorporate components which may contain up to a total of 25 weight percent water. Processes for preparing foamed extrudates are also provided wherein a cooling fluid is used to increase the expansion ratio of the foam. Finally provided are composites having an extrudable thermoplastic substrate and at least one capstock layer disposed thereon containing a PVC/WF composition.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des

☐ 3. Document ID: US 6231970 B1

AB: Thermoplastic starch compositions that include a particulate filler, e.g. an inorganic filler component, and optional fibrous component The compositions include a thermoplastic phase comprising a thermoplastic starch melt that contains, at a minimum, starch blended with an appropriate plasticizing agent under conditions in order for the starch to form a thermoplastic melt. The thermoplastic phase may also include one or

more additional thermoplastic polymers and other optional reactants, liquids or cross-linking agents to improve the water-resistance, strength, and/or other mechanical properties of the thermoplastic melt, particularly upon solidification. The inorganic filler component may affect the mechanical properties but will mainly be added to reduce the cost of the thermoplastic starch compositions by displacing a significant portion of the more expensive starch or starch/polymer melt. Fibers may optionally be included in order to improve the mechanical properties of the thermoplastic starch compositions. The thermoplastic starch compositions may be shaped into a wide variety of useful articles, such as sheets, films, containers, and packaging materials. Because the thermoplastic starch compositions will typically include a thermoplastic phase that is biodegradable, and because the other components will either constitute a naturally occurring mineral and optionally a natural fiber, the overall composition will typically be more environmentally friendly compared to conventional thermoplastic materials.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des

☐ 4. Document ID: US 5851634 A

AB: A hinge for use in inorganically filled composite materials is provided. The hinge has an inorganically filled structural matrix comprising a water-dispersable organic polymer binder, an aggregate material, and a fibrous material. The hinge allows inorganically filled materials to be bent along a line without breakage of the material. The hinge is preferably formed by scoring a formed sheet of inorganically filled material. The hinge is particularly useful in containers that require bending of various container parts, such as in food containers and boxes made from inorganically filled materials.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des

☐ 5. Document ID: US 5707474 A

AB: A method for manufacturing a hinged sheet having an inorganically filled structural matrix includes mixing together a water-dispersible organic polymer binder, an inorganic aggregate material, a fibrous material, and water in order to form a moldable inorganically filled mixture in which the components therein are substantially homogeneously dispersed. The inorganically filled mixture is formed into a substantially hardened sheet having an inorganically filled matrix in a manner such that the water is removed by evaporation. The sheet is then scored to form a hinge in the inorganically filled matrix. Alternatively, a score can be pressed into a surface of the sheet prior to drying in order to form a scored sheet which is then dried. A hinged article having an inorganically filled structural matrix can also be formed by molding the inorganically filled mixture into an article in a manner such that the article includes at least one part that is hingedly attached to at least one other part by a hinge which defines an area of reduced thickness.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des

☐ 6. Document ID: US 5631053 A

AB: A hinge for use in inorganically filled composite materials is provided. The hinge has an inorganically filled structural matrix comprising a water-dispersable organic polymer binder, an aggregate material, and a fibrous material. The hinge allows inorganically filled materials to be bent along a line without breakage of the material. The hinge is preferably formed by scoring a formed sheet of inorganically filled material. The hinge is particularly useful in containers that require bending of various container parts, such as in food containers and boxes made from inorganically filled materials.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des

☐ 7. Document ID: US 4172735 A

AB: Flame resistant foam plastics of cellulose and kieselguhr or one of several types of mica such as roscoelite, lepidolite, biotite, phlogopite, vermiculite or muscovite where at least 80 percent by weight of the kieselguhr or the mica show grain sizes ranging from 0.4 to 650 microns and where the bulk density of the kieselguhr is less than 0.40 g./cc. and the bulk density of the mica is less than 0.37 g./cc.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Des

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